



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 1 of 8			
HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC				
Ingredient: Tebucoazole					
Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note

OPPTS Series 830	Product Properties				
830.1550	Product identity and composition	49690001	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1600	Description of materials used to produce the product	49690001	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1620	Description of production process	49690001	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1650	Description of Formulation Process				Not required ¹
830.1670	Discussion of formation of impurities	49690001	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1700	Preliminary analysis	49690002	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1750	Certified limits	49690001	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.1800	Enforcement analytical method	49690003	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.6302	Color	49690004	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.6303	Physical state	49690004	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.6304	Odor	49690004	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.6313	Stability to Normal and Elevated Temps, Metals, and Metal Ions	49690009 50527601	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	Waiver ²
830.6314	Oxidation/reduction: Chemical incompatibility	Cite-All		PAY	
830.6315	Flammability	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	Waiver ³
830.6316	Explosibility	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	Waiver ⁴
Signature 		Name and Title: Matthew Granahan, U.S. Regulatory Leader		Date: August 24, 2022	



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Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 2 of 8
HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC	

Ingredient: Tebucoazole

Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note
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830.6317	Storage Stability	49690009 50527601	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	PRN 92-5 ⁵
830.6319	Miscibility				Not required ⁶
830.6320	Corrosion Characteristics	49690009 50527601	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	PRN 92-5 ⁵
830.6321	Dielectric Breakdown Voltage				Not required ⁷
830.7000	pH	49690005	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.7050	UV visible light absorption	49690006	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.7100	Viscosity				Not applicable ⁸
830.7200	Melting point/melting range	49690007	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.7220	Boiling Point/ Boiling Range				Not applicable ⁹
830.7300	Density/relative density/bulk density	49690008	Jiangsu Fengdeng Crop Science Co., Ltd.	PER	
830.7370	Dissociation Constants in Water	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	PL	
830.7520	Particle size, fiber length, diameter distribution	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	OWN	Waiver ¹⁰
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	PL	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Est. by Liquid Chromo.				See 830.7550
830.7840	Water solubility: column elution method; shake flask method	49690009	Jiangsu Fengdeng Crop Science Co., Ltd.	PL	
830.7860	Water Solubility, Generator Column Method				See 830.7840

Signature 	Name and Title: Matthew Granahan, U.S. Regulatory Leader	Date: August 24, 2022
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DATA MATRIX

Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 4 of 8			
HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC				
Ingredient: Tebucoazole					
Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note

- 1 **830.1650** - These data are not required for technical grade active ingredients. Refer to 830.6320.
- 2 **830.6316** - HELM Agro US, Inc. requests a waiver from this data requirement. Tebuconazole Tech is not subjected to temperatures greater than 50°C after production or during storage. HELM Agro US, Inc. will not store Tebuconazole Tech in metal containers nor is Tebuconazole Tech expected to come in contact with metals or metal ions during production.
- 3 **830.6315** - HELM Agro US, Inc. requests a waiver from this data requirement due to the fact that Tebuconazole Tech is a solid and does not contain any flammable ingredients.
- 4 **830.6316** - HELM Agro US, Inc. requests a waiver from this data requirement due to the fact that tebuconazole does not contain the chemical bonds or functional groups associated with explosive compounds.
- 5 **830.6317, 830.6320** - Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. HELM Agro US, Inc. agrees to conduct this study if required and requests that if required, this study be made a condition of registration.
- 6 **830.6319** - This data requirement is required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. Since Tebuconazole Tech is not an end use product to be diluted with petroleum solvents prior to application, this data requirement does not apply.
- 7 **830.6321** - These data are required if the product is an end-use product to be used around electrical equipment. This data requirement is not applicable to Tebuconazole TC.
- 8 **830.7100** - This data requirement is not applicable to Tebuconazole TC since it is a solid.
- 9 **830.7220** - This requirement is not applicable to Tebuconazole TC because it is a solid.
- 10 **830.7520** - HELM Agro US, Inc. requests a waiver for this data requirement for Tebuconazole TC because the product is not a fibrous material nor is it water insoluble.



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Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 5 of 8
HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC	
Ingredient: Tebucoazole		
Guideline Reference #	Guideline Study Name	MRID Number
		Submitter
		Status
		Note

HELM Agro US Inc. is making or has made offers-to-pay to the following companies listed on EPA's Data Submitters list as of March 31, 2022 for all other data requirements except those listed above.

		Company Number	Submitter	Status	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	192	VALUE GARDENS SUPPLY, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	264	BAYER CROPS SCIENCE LP	PER	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	279	FMC CORPORATION	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	432	BAYER ENVIRONMENTAL SCIENCE	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	1001	CLEARY CHEMICALS, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	1022	IBC MANUFACTURING CO	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	2217	PBI/GORDON CORPORATION	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	3008	KOPPERS PERFORMANCE CHEMICALS, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	3125	BAYER CORP	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	4581	UNITED PHOSPHORUS, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	4787	CHEMINOVA A/S	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	5383	TROY CHEMICAL CORPORATION	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	5481	AMVAC CHEMICAL CORPORATION	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	7501	GUSTAFSON LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	7946	J. J. MAUGET CO.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	10465	VENATOR CHEMICALS LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	11435	CP CHEMICALS INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	11678	ADAMA MAKHTESHIM LTD.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	34704	LOVELAND PRODUCTS, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	35915	SIPCAM OXON S.P.A.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	39967	LANXESS CORPORATION	PAY	



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HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC	

Ingredient: Tebucoazole

Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note
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	Cite-All under Selective Method utilized by Helm Agro US Inc.	42519	LUXEMBOURG-PAMOL, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	42750	ALBAUGH, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	43813	JANSSEN PMP	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	45002	ALBAUGH, LLC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	43813	JANSSEN PMP	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	45002	ALBAUGH, LLC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	51036	BASF SPARKS LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	53883	CONTROL SOLUTIONS, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	55146	NUFARM AMERICAS, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	60063	SIPCAM AGRO USA, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	62190	ARCH WOOD PROTECTION, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	66222	MAKHTESHIM AGAN OF NORTH AMERICA, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	66330	ARYSTA LIFESCIENCE NORTH AMERICA LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	66607	SPRAY DRIFT TASK FORCE	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	67760	CHEMINOVA, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	69361	REPAR CORP	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	70506	UPL NA INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	70905	SULPHUR MILLS, LTD.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	71512	ISK BIOSCIENCES CORPORATION	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	71754	OUTDOOR RESIDENTIAL EXPOSURE TASK FORCE, L.L.C.	OWN	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	71755	AGRICULTURAL REENTRY TASK FORCE	OWN	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	73545	NISSO TM LLC	PAY	



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Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 7 of 8
HELM Agro US, Inc. 401 E. Jackson St., Suite 1400 Tampa, FL 33602	Product Tebuconazole TC	

Ingredient: Tebucoazole

Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note
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	Cite-All under Selective Method utilized by Helm Agro US Inc.	73989	FIFRA ENDANGERED SPECIES TF	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	74054	ADAMA CELSIUS, B.V., CURACAO BRANCH	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	74280	PUNJAB CHEMICALS & CROP PROTECTION, LTD	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	74405	KOPPERS PERFORMANCE CHEMICALS NEW ZEALAND	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	74530	HELM AGRO US, INC.	OWN	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	75101	ARCH WOOD PROTECTION (NZ) LIMITED	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	75234	AGRICULTURAL HANDLER EXPOSURE TF	OWN	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	75341	OSMOSE UTILITIES SERVICES, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	75506	ARCH TREATMENT TECHNOLOGIES, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	75576	U.S. TRIAZOLE TASK FORCE	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	81598	ROTAM LIMITED	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	81964	CHEMSTARR, LLC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	82542	SOURCE DYNAMICS, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	82633	SHARDA CROP-CHEM LIMITED	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83100	ROTAM AGRO-CHEMICAL COMPANY, LTD.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83162	AMERICAN CHEMISTRY COUNCIL	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83222	WINFIELD SOLUTIONS, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83529	SHARDA USA LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83851	AMTIDE, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	83997	VIANCE, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	84229	TIDE INTERNATIONAL, USA, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	84653	GENERIC ENDANGERED SPECIES TF	OWN	



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Date August 24, 2022	EPA Reg. No./File Symbol 74530-67	Page 8 of 8
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Ingredient: Tebucoazole

Guideline Reference #	Guideline Study Name	MRID Number	Submitter	Status	Note
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	Cite-All under Selective Method utilized by Helm Agro US Inc.	84661	PHIBRO WOOD, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	85678	REDEAGLE INTERNATIONAL LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	86296	TRUSTCHEM CO., LTD	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	86505	BERKEM DEVELOPPEMENT	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	86913	GAYLORD CHEMICAL CO. LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	87284	WILLOWOOD PROPICONAZOLE, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	87290	WILLOWOOD, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	87811	WILLOWOOD TEBUCONAZOLE, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	88201	POLES, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	88801	OLYMPUS SEED TREATMENT FORMULATOR, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	89167	AXION AG PRODUCTS, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	89168	LIBERTY CROP PROTECTION, LLC	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	90736	JIANGSU FENGDENG CROP SCIENCE	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	91232	FENGDENG USA, INC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	91234	ATTICUS, LLC.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	92564	SBM LIFE SCIENCE CORP.	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	92617	KOP-COAT PROTECTION PRODUCTS	PAY	
	Cite-All under Selective Method utilized by Helm Agro US Inc.	94730	GENERIC CROP SCIENCE, LLC	PAY	

Signature 	Name and Title: Matthew Granahan, U.S. Regulatory Leader	Date: August 24, 2022
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